

Title (en)

ADDITIVE MANUFACTURING WITH NOZZLES AT DIFFERENT DIE WIDTHS

Title (de)

GENERATIVE FERTIGUNG MIT DÜSEN MIT UNTERSCHIEDLICHEN DÜSENBREITEN

Title (fr)

FABRICATION ADDITIVE COMPORTANT DES BUSES À DIFFÉRENTES LARGEURS DE MATRICE

Publication

**EP 3710228 A4 20210714 (EN)**

Application

**EP 18909607 A 20180312**

Priority

US 2018022036 W 20180312

Abstract (en)

[origin: WO2019177578A1] In one example in accordance with the present disclosure, an additive manufacturing module is described. The additive manufacturing module includes an agent distributor to selectively distribute a fabrication agent onto layers of build material. The agent distributor includes at least one fluidic ejection die. Each fluidic ejection die includes a plurality of nozzles arranged along a die length and a die width, the plurality of nozzles arranged such that, for each set of neighboring nozzles, a respective subset of each set of neighboring nozzles are positioned at different die width positions along the width of the fluidic ejection die. The fluidic ejection die also includes, for each respective nozzle of the plurality of nozzles, a respective ejection chamber fluidically coupled to the respective nozzle and for each respective ejection chamber, at least one respective fluid feed hole fluidically coupled to the respective ejection chamber.

IPC 8 full level

**B29C 64/209** (2017.01); **B29C 64/165** (2017.01); **B29C 64/30** (2017.01); **B33Y 10/00** (2015.01); **B33Y 30/00** (2015.01); **B41J 2/145** (2006.01)

CPC (source: EP US)

**B29C 64/165** (2017.07 - EP US); **B29C 64/209** (2017.07 - EP US); **B33Y 10/00** (2014.12 - EP); **B33Y 30/00** (2014.12 - EP US); **B41J 2/145** (2013.01 - EP)

Citation (search report)

- [XY] US 2006221125 A1 20061005 - KONNO MASAOKI [JP]
- [X] US 2012160925 A1 20120628 - HOISINGTON PAUL A [US], et al
- [XY] US 2011187773 A1 20110804 - KUSAKARI TSUTOMU [JP], et al
- [Y] WO 2017196323 A1 20171116 - HEWLETT PACKARD DEVELOPMENT CO LP [US]
- See references of WO 2019177578A1

Cited by

US11685115B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2019177578 A1 20190919**; CN 111655458 A 20200911; CN 111655458 B 20220405; EP 3710228 A1 20200923; EP 3710228 A4 20210714; JP 2021507831 A 20210225; JP 7026799 B2 20220228; US 11685115 B2 20230627; US 2021323228 A1 20211021

DOCDB simple family (application)

**US 2018022036 W 20180312**; CN 201880087781 A 20180312; EP 18909607 A 20180312; JP 2020534512 A 20180312; US 201816493050 A 20180312